**SQL Queries for Insurance Data Set:**

**1) Checking Total Record**

select count(\*) as total\_data from cleaned\_insurance\_data

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**2) Create view for region base Collection of Premium**

Create view collected\_premium\_by\_Region as

SELECT Region, SUM(Premium\_Amount) AS Total\_Premium

FROM cleaned\_insurance\_data

GROUP BY Region

select \* from collected\_premium\_by\_Region

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**3) Average Premium by Policy Type**

Create view avg\_pre\_by\_policy as

SELECT Policy\_Type, Avg(Premium\_Amount) AS avg\_Premium

FROM cleaned\_insurance\_data

GROUP BY Policy\_Type

select \* from avg\_pre\_by\_policy

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**While do avg on Claims severity we got error because agg function gives int as output, Hence, we need to add one more columns and pass arguments to convert Low, Medium and High into 0,1,2 respectively.**

ALTER TABLE cleaned\_insurance\_data

ADD Claim\_severity INT;

UPDATE cleaned\_insurance\_data

SET Claim\_severity =

CASE

WHEN Claims\_Severity = 'Low' THEN 0

WHEN Claims\_Severity = 'Medium' THEN 1

WHEN Claims\_Severity = 'High' THEN 2

END;

**Claim Analysis:**

SELECT Claim\_severity, COUNT(\*) AS Count

FROM cleaned\_insurance\_data

GROUP BY Claim\_severity;

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Total Claims Paid by Region:

SELECT Region, SUM(Claims\_Adjustment) AS Total\_Claims\_Paid

FROM cleaned\_insurance\_data

GROUP BY Region

ORDER BY Total\_Claims\_Paid DESC;

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**Impact of Discount on premiums:**

select

case

When Total\_discount\_impact<0.02 Then 'Low Discount'

When Total\_discount\_impact Between 0.02 and 0.07 Then 'Medium Discount'

Else 'High Discount'

End as dicount\_category,

count(\*) as total\_Customers,

avg(Premium\_Amount) as Avg\_premium

from cleaned\_insurance\_data

group by

case

When Total\_discount\_impact<0.02 Then 'Low Discount'

When Total\_discount\_impact Between 0.02 and 0.07 Then 'Medium Discount'

Else 'High Discount'

End

order by Avg\_premium desc

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**Conversion Rate by Lead Source:**

select Source\_of\_Lead,

count(\*) as Total\_Leads

From cleaned\_insurance\_data

Group by Source\_of\_Lead

order by Total\_Leads desc

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